Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please cancel claims 22-30, 32-56, 59 and 60.

Listing of Claims:

- 1. (Previously Presented) A modular apparatus for detecting a target analyte, the apparatus comprising:
 - a reservoir module comprising:
 - a fluid manifold base; and
 - a plurality of reservoirs coupled to the fluid manifold base;
 - a microfluidic chip comprising:
 - a plurality of inlets; and
 - a separation channel in fluid communication with at least one of said inlets;
- a sample introduction port in fluid communication with said reservoir module and at least one of the plurality of inlets;
- a seal positioned between the fluid manifold base and the microfluidic chip, the seal defining at least one area of fluidic communication between one of said reservoirs and one of said inlets;
- a detection module positioned to interrogate at least a portion of the separation channel; and
- an output interface in communication with said detection module to indicate detection of the target analyte; and
 - a power module for providing controlled current or voltage.
- 2. (Original) A modular apparatus according to claim 1, wherein the reservoirs are each coupled to the fluid manifold base with a fitting.
- 3. (Original) A modular apparatus according to claim 1, wherein at least one reservoir further comprises a reservoir seal, said fluid manifold base further comprising at least one needle penetrating said reservoir seal.

4. (Original) A modular apparatus according to claim 1, wherein the needle is in fluidic communication with at least one inlet.

5-6. (Canceled)

7. (Previously Presented) An apparatus according to claim 1, wherein at least one of said plurality of reservoirs comprise at least two chambers, wherein one of the at least two chambers is in fluidic communication with at least one of said plurality of inlets, and the second of said at least two chambers is in electrical communication with the power module.

8. (Canceled)

- 9. (Previously Presented) An apparatus according to claim 1, wherein each of said plurality of reservoirs further comprises an electrode, and wherein the power module is in communication with each of said electrodes.
- 10. (Original) An apparatus according to claim 9, wherein said power module is further in communication with said detection module.
- 11. (Previously Presented) An apparatus according to claim 1 wherein said separation channel comprises a low-dispersion channel.
- 12. (Original) An apparatus according to claim 1, wherein said microfluidic chip comprises a plurality of separation channels.
- 13. (Original) An apparatus according to claim 1, wherein said modular apparatus is portable.
- 14. (Original) An apparatus according to claim 1, wherein said modular apparatus is hand-held.

- 15. (Original) An apparatus according to claim 1, wherein the microfluidic chip, the reservoir module, the fluid manifold base, and the detection module are contained in a single housing.
- 16. (Previously Presented) An apparatus according to claim 1, wherein the detection module comprises a light source.
- 17. (Previously Presented) An apparatus according to claim 16, wherein the light source is a laser diode.
- 18. (Original) An apparatus according to claim 1, further comprising a plurality of microfluidic chips.
- 19. (Original) An apparatus according to claim 18, further comprising a plurality of fluid manifold bases.
- 20. (Original) An apparatus according to claim 18, wherein each of said microfluidic chips are configured to perform a different microfluidic separation.
- 21. (Original) An apparatus according to claim 18, further comprising a plurality of detection modules.

Claims 22-56 (Canceled)

- 57. (Previously Presented) The modular apparatus of claim 1, further comprising a particulate filter incorporated within said sample introduction port.
- 58. (Previously Presented) The modular apparatus of claim 1, wherein said power module provides a source or a sink current.

Claims 59-60 (Canceled)